MULTIMEDIA UNIVERSITY®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2017/2018

PCG0023 – COMPUTER GRAPHICS 2

(All sections / Groups)

06 MARCH 2018
2.30 p.m - 4.30 p.m
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 27 pages including this cover page.
2. **ANSWER COMPULSORY QUESTION (SECTION A) AND CHOOSE TWO OUT OF FOUR QUESTIONS (SECTION B) <u>NOT</u> ALL**
3. Please write your **Section A** answers in the provided **Multiple Choice Sheet** and **Section B** in **Question Paper**.

SECTION A **(60 Marks)**
Answer ALL the questions.

1. The following is NOT true of rulers: _____.

A. Rulers display inches by default
B. Ruler guides do print
C. A ruler guide is also called a green line
D. Rulers can be displayed in pixels or centimeters
E. All of the above

2. How can you edit a layer mask?

A. In the Layer, select the layer mask thumbnail. Using the Healing brush paint over the areas you want to be revealed and then ALT- click to hide.
B. In the Layer, select the layer mask thumbnail. Drag around an area on the layer. When you release the mouse, the open ends of the selection will be joined automatically.
C. In the Layer, select the layer mask thumbnail. With the brush tool paint with white to reveal, paint with black to hide.
D. In the Layer, select the layer mask thumbnail. Choose the Crop tool, drag a marquee over the part of the image you want to keep and then click enter.
E. All of the above

3. How many layers can a Photoshop image have?

A. 12
B. 24
C. 64
D. 99
E. Unlimited

4. What does dpi stand for?

A. Damage per increment
B. Dots per integer
C. Dots per increment
D. Dots per inch
E. All of the above

Continued...

5. The selected layer is referred to as the _____ layer in the Layers palette.

A. first
B. active
C. stopped
D. chosen
E. All of the above

6. On most layers, the Eraser tool simply erases the pixels or changes them to _____.

A. transparent
B. black
C. grayscale
D. luminal
E. All of the above

7. A _____ determines the number of colors and combinations or colors used to display and print the image.

A. color mode
B. color method
C. either A or B
D. neither A nor B
E. All of the above

8. The typical size for a graphic design is measured in _____.

A. pica
B. pixels
C. points
D. inches
E. pic

Continued...

9. How can you fill a selection with black if black is the foreground color?

A. Alt+Backspace
B. Backspace if the layer is the Background layer
C. Alt+F5
D. Alt+F6
E. All of the above

10. Photoshop has four marquee tools that do NOT include _____.

A. Elliptical Marquee
B. Single Row Marquee
C. Circular Marquee
D. Rectangle Marquee
E. All of the above

11. Which is an available option for the Quick Selection tool?

A. Sample All Layers
B. Auto-Enhance
C. Brush size
D. Eraser
E. All of the Above

12. Legal rights to use an image include all of the following EXCEPT _____.

A. purchasing rights from an artist to use an image via a contract
B. purchasing rights from a photographer to use an image via a contract
C. permission from the photographer to use the image
D. locating an image on a Web site
E. All of the above

13. Which tools creates a copy of one area and applies it to another area of the image?

A. Eyedropper Tool
B. Clone Stamp
C. Gradient
D. Spot Healing
E. Content Aware

Continued...

14. With the Move Tool, if you press and hold the ALT key before dragging, you _____ the selection.

A. Delete
B. Save
C. Duplicate
D. Copy
E. none of the above

15. Clicking a(n) _____ button in the Gradient Editor dialog box allows you to enter a percentage of opacity and a location within the color bar for the opacity to begin.

A. Gradient Stop
B. Opacity Stop
C. Transparency Stop
D. Color Stop
E. All of the above

16. Start a new file by

A. File > New > fill in dialogue box > press ok
B. Command > Open new file
C. Command > Open New File
D. File > Save as New file
E. All of the above

17. Layer _____ help you manage and organize layers in a logical manner.

A. presets
B. groups
C. locks
D. clusters
E. All of the above

Continued...

18. In the Brushes panel what can you NOT assign to control the size?

A. Pen Pressure
B. Fade
C. Pen Speed
D. Pen Tilt
E. All of the above

19. Which is NOT a new option for the Adjustment Brush in Camera RAW 7.0?

A. Noise Reduction
B. Moire Reduction
C. Exposure
D. Tint
E. All of the above

20. What does holding the spacebar down do in Adobe Photoshop?

A. Creates a space in the image
B. Opens the File>Object menu
C. Turns the cursor into the hand tool, which allows repositioning of the current layer
D. Create a new layer
E. Open Eye Drop tool option

21. 0% opacity is called _____, and 100% opacity is called _____.

A. Transparent, opaque
B. Opaque, transparent
C. Invisible, visible
D. None of the above
E. All of the above

22. To cut down the size of the entire image/photo, including all layers, you should select the _____ tool.

A. marquee
B. magic wand
C. crop
D. clone stamp
E. All of the above

Continued...

23. Which tool can with one click of the mouse, select an entire area of a continuous color?

A. Eye Dropper Tool
B. Lasso Tool
C. Magic Wand Tool
D. Polygonal Lasso Tool
E. None of the above

24. The technique with this tool involves taking pixels from one location and moving them to another location.

A. Patching
B. Selecting
C. Cloning
D. Moving
E. None of the above

25. A pixel is an individual dot of _____ that is the basic unit used to create digital images.

A. color
B. white
C. black
D. light
E. All of the above

26. _____ is the technique photographers, designers and artists use to create the illusion of three dimensions on a flat or two-dimensional surface.

A. Layout
B. Perspective
C. Elliptical
D. Transform
E. none of the above

Continued...

27. CMYK color mode stands for

A. Red, Marine, Orange, White
B. Cyan, Maroon, Yellow, Black
C. Cyan, Magenta, Yellow, Black
D. Codec, Max, Light, Dark
E. Red, Green, Blue, Black

28. The Eraser tool options bar displays a(n) _____ box in which you can specify the depth of the erasure.

A. Impact
B. Opacity
C. Depth
D. Mode
E. All of the above

29. What tool is at the top right of the Tool Toolbar?

A. Stamp
B. Clone
C. Selection
D. Opacity
E. Feather

30. The _____ transformation command results in the selection being displayed in a different size.

A. Grow
B. Scale
C. Shrink
D. Perspective
E. All of the above

31. Each tool on the Tools palette displays a tool _____.

A. Marker
B. Icon
C. Guide
D. Ruler
E. All of the above

Continued...

32. What can you lock on a layer?

A. Transparency
B. Position
C. Image Pixels
D. Layer Channel
E. All of the above

33. We can duplicate a layer by right-clicking a layer in the Layers palette, and then clicking _____ on the shortcut menu.

A. Duplicate Layer
B. Repeat Layer
C. Copy Layer
D. Renew Layer
E. All of the above

34. A _____ allows you to specify exact pixel values for the marquee's height and width.

A. Fixed Size
B. Fixed Aspect Ratio
C. Normal style
D. New Select Size
E. All of the above

35. When you choose a transformation, Photoshop displays a _____ or border with six sizing handles around the selection.

A. clip box
B. border box
C. bounding box
D. Text box
E. none of the above

Continued...

36. Selections can be the entire photo or as small a portion as _____.

A. one millimeter
B. a square millimeter
C. one pixel
D. one dot
E. none of the above

37. Drop shadow, inner glow and bevel are examples of _____ you need to use with text.

A. filters
B. blending options
C. image adjustments
D. layer modes
E. None of the above

38. What can you change for multiple selected layers?

A. Only Opacity
B. Only Blend Modes
C. Delete
D. Both
E. None

39. Which keyboard shortcut will let you hide the Cropped areas before cropping them?

A. H
B. C
C. P
D. D
E. none of the above

40. The hidden menu under the rectangle tool has

A. Ellipse tool
B. Line tool
C. Custom Shape Tool
D. Opacity
E. All of the above

Continued...

41. Which tool is the best to retouch an eye-bag for portrait photo editing?

A. Dodge tool
B. Patch tool
C. Spot Healing tool
D. Healing Brush tool
E. All of the above

42. Which of the following can you NOT do with Photoshop?

A. Restore old photographs
B. Create original artwork
C. Create Flash movies
D. Open TIFF files
E. See a histogram of an image

43. The grid can be displayed _____.

A. as nonprinting lines
B. in different colors or styles
C. as dots
D. as line
E. all of the above

44. How can you open the Welcome Screen of Photoshop?

A. Choose About Photoshop
B. Choose Welcome Screen
C. Choose System Info
D. Choose View Extras
E. All of the above

45. The following steps are NOT recorded in the history palette: _____.

A. changes to palettes
B. changes to actions and preferences
C. changes to color settings
D. changes to profile
E. all of the above

Continued...

46. The key shortcut for opening layers palette is:

A. F7
B. F2
C. Ctrl+Shift+L
D. Ctrl+L
E. Alt+0

47. With clone stamp tool selected, to select the source pixels you will press

A. Ctrl
B. Shift+Ctrl
C. Enter
D. Alt
E. Alt+Enter

48. What is the function of a quick selection mask?

A. It allows you to create and edit selections quickly
B. It merges all the layers together
C. It creates shortcut to open image
D. To create and duplicate layers
E. All of the above

49. From tools palette the selection tool that selects on the basis of similar color is

A. Clone stamp tool
B. Magic wand tool
C. History Brush tool
D. Smudge tool
E. Marquee tool

50. How can you distort text in perspective without rasterizing it?

A. You have to duplicate the layer and keep the original editable text
B. You have to turn the text layer into a Smart Object
C. You have to use Content-Aware Scale
D. You have to use a Clipping Mask
E. All of the above

Continued...

51. If the Sample All Layers box is NOT checked, the Magic wand tool selects colors from _____.

A. the docked palette
B. the active layer only
C. recent history
D. hide
E. all of the above

52. The shortcut for the move tool is

A. M
B. T
C. V
D. S
E. none of the above

53. A _____ is a short on-screen note associated with the object to which you are pointing.

A. help pop-up
B. tool tip
C. help tip
D. tool guide
E. none of the above

54. How do you convert the Background into a Layer?

A. Click a layer, then press Ctrl-A/Cmd-A
B. Double-click the Background on the Layers panel
C. Move the Background upward in the layers panel
D. Click the Background and then press Delete.
E. None of the above

Continued...

55. What does Background save mean?

A. There is no such option in Photoshop CC
B. It means that only the Background layer will be saved
C. It means that Photoshop will save documents in the background so the user can continue working in the meantime
D. It means that a flattened version of the document will be saved
E. All of the above

56. What happens if you have the Caps Lock on and you use brushes?

A. The background colour will be used
B. The cursor will turn to precise mode, when only the crosshair is visible
C. It turns the Quick mask option on
D. Your brushstrokes will be straight
E. All of the above

57. The _____ check box creates a smooth edge that can apply to both selecting and erasing.

A. Smooth
B. Anti-alias
C. Perspective
D. Shape
E. All of the above

58. You can click the Undo command or you can press _____ to undo the last edit.

A. CTRL + X
B. CTRL + Y
C. CTRL + Z
D. CTRL + TAB
E. All of the above

Continued...

59. The three tools that select pixels are

A. crop, move, rectangular marquee
B. magic lasso, marquee, wand
C. marching ants
D. lasso, magic wand, marquee
E. All of the above

60. How can you start Photoshop with all the default preferences?

A. You have to delete all preferences files
B. You have to reinstall Photoshop
C. Choose Reset all Preferences on the General tab of the Preferences window
D. Hold down Ctrl/Cmd+Alt+Shift while opening Photoshop
E. All of the above

Continued...

SECTION B **(40 Marks)**
Choose TWO out of FOUR Questions

QUESTION 1 **(20 Marks)**

1.1 The following questions are based on the following **Mixing Photos and Vector Arts** :

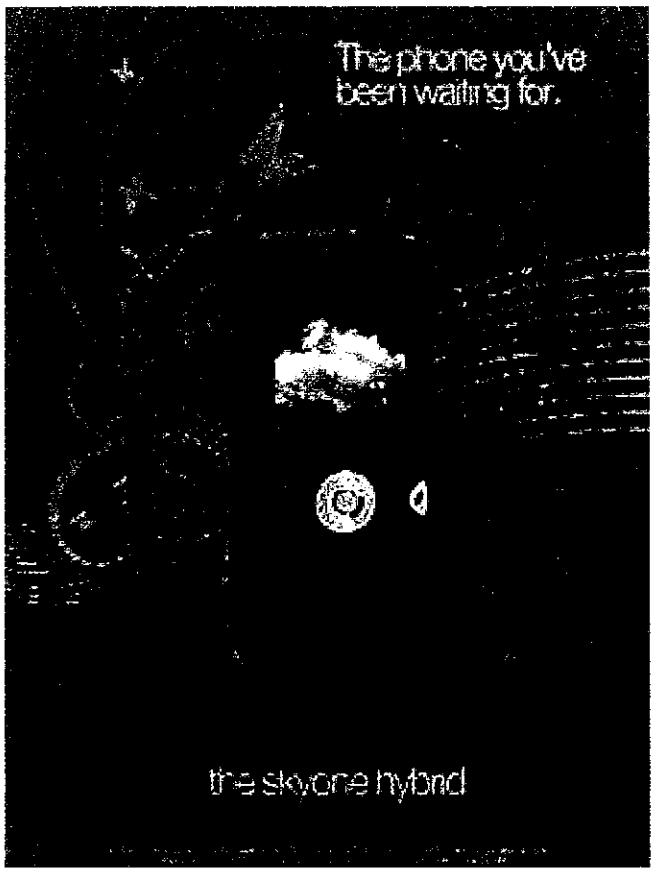


Illustration 1

Illustration 1 is based on the basic understanding of **Raster Graphics blending techniques with Vector Elements** using Adobe Photoshop.

i. **Describe the difference** between a bitmap image and a vector graphic? (2 points)

_____

_____

Continued...

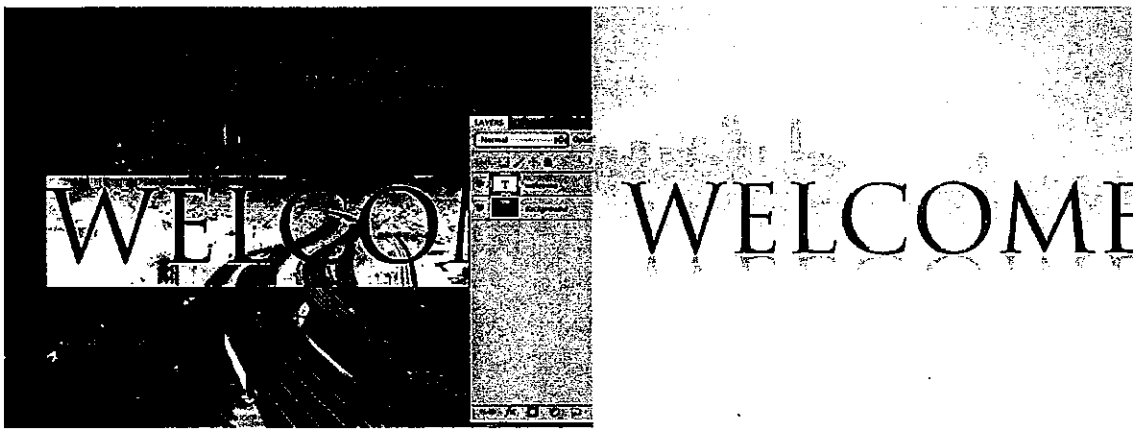
ii. **Describe the process** of applying the text tools with effects. (2 points)

iii. **Describe one way to isolate color adjustment to an image.** (2 points)

iv. **Describe one way to remove color** from a selection or image for a grayscale effect. (2 points)

v. **What is the purpose** of merging layers? (2 points)

1.2 The **Before and After** images were captured from the **Compositing Image using Text Tools,** basic learning of understanding the tools in Adobe Photoshop.



before after

Describe the detail process of the making "after" image composition layout. What are the **tools and filters involved** for the process and **how to save the image** as part of the requirements for online submission?

Continued...

i. Describe the **process in detail.** (5 points)

ii. What are the **Tools and Filters** involved? (2 points)

iii. How to **save the image** as part of the requirements for **online submission.** (3 points)

Continued...

QUESTION 2 **(20 points)**

The following question is based on the Basic of Image Editing and Effects.

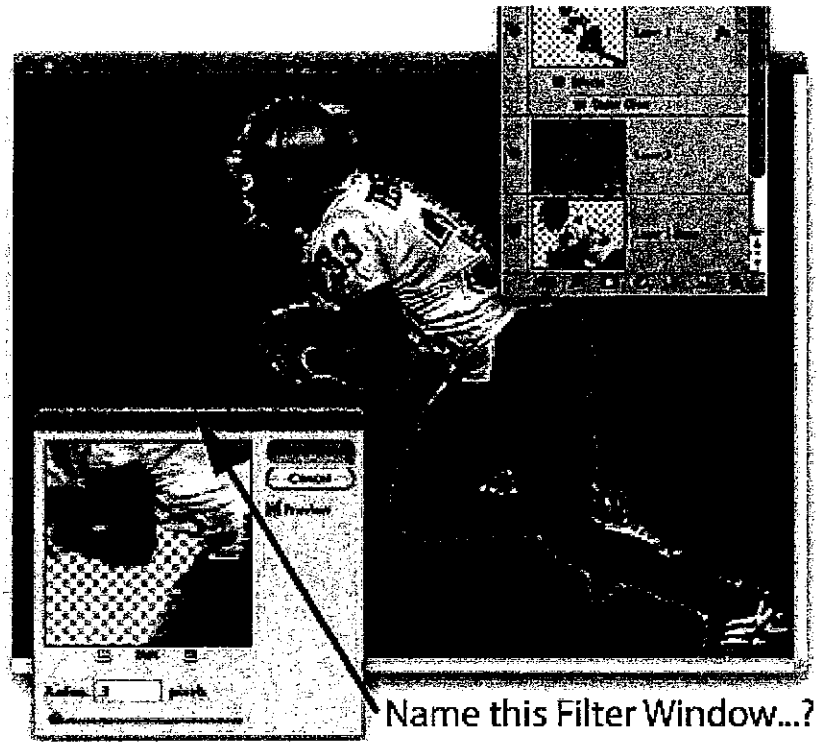


Illustration 3 : Filter window menu

2.1 The following questions are based on the illustration 3.

a. Name this filter window (2 marks)

_____

_____

b. The usage of this filter (2 marks)

_____

_____

c. How to apply this filter? (2 marks)

_____

_____

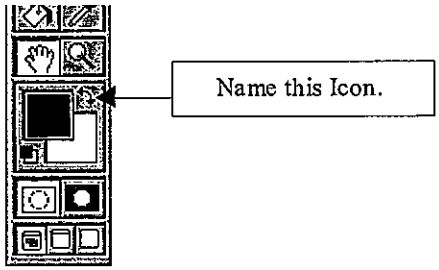
Continued...

d. Name other filters in this group (2 marks)

_____

_____

Referring to the Illustration below, please in the blank below



e. Name the icon tool as shown in the above illustration. (2 marks)

_____

_____

2.2 Basic Standard Adobe Photoshop Tool Short Cut

a. Keyboard [**W**] short-cut for > _____ (2 marks)

b. Keyboard [**C**] short-cut for > _____ (2 marks)

c. Keyboard [**M**] short-cut for > _____ (2 marks)

d. Keyboard [**D**] short-cut for > _____ (2 marks)

e. Keyboard [**T**] short-cut for > _____ (2 marks)

Continued...

QUESTION 3

The following questions are based on the following **vignette effect** : **(20 marks)**

Before

After

Illustration 5

Illustration 5 is captured from Adobe Photoshop windows of **before and after** applying the filter effect techniques. (one of the filter window menu effects).

a. What is the **tool involved** to create this effect and how ? (5 marks)

Continued...

b. If the above image (**illustration 5**) is created for online purpose.
Please describe the detail process on **how it should be organized and save method** and **how to create screen media eg. Computer screen wallpaper** using the techniques that provided in Adobe Photoshop. (15 marks)

Continued...

Continued...

QUESTION 4

The following questions are based on the following **TRUE and FALSE** : **(20 marks)**

1. Resolution is a measurement of pixels per square inch.

   ☐ TRUE

   ☐ FALSE

2. The Control keystroke can be held down when you're using the Elliptical tool to make a perfect circle.

   ☐ TRUE

   ☐ FALSE

3. White areas in some layer mask permit pixels to be seen, black areas hide pixels, and gray areas hide pixels partially.

   ☐ TRUE

   ☐ FALSE

4. There is a feathering setting for the marquee tool.

   ☐ TRUE

   ☐ FALSE

5. Healing tool is used in Photoshop to hide the unwanted spots area that appeared in original picture and make picture look real without any changes.

   ☐ TRUE

   ☐ FALSE

Continued...

6. Smart Objects are layers that contain image data from raster images, such as Photoshop files. Smart Objects preserve an image's source content with all its original characteristics, enabling you to perform non-destructive editing to the layer.

☐ TRUE

☐ FALSE

7. The image size and the canvas size are essentially the same thing in a Photoshop file.

☐ TRUE

☐ FALSE

8. When you drag and drop a selection of pixels from one document to another it creates a layer mask in the target document.

☐ TRUE

☐ FALSE

9. Pixels are small squares on a computer screen that reflect light.

☐ TRUE

☐ FALSE

10. The image adjustment of Curves can take RGB input tones and selectively stretch or compress them.

☐ TRUE

☐ FALSE

11. Magic Wand tool → selects similarly colored areas

☐ TRUE

☐ FALSE

Continued...

12. To create a layer mask, start with a selection of the area. At the bottom of the Layers panel, click the Add Layer Mask button.

☐ TRUE

☐ FALSE

13. Difference is an image Adjustment and Threshold is a blending mode.

☐ TRUE

☐ FALSE

14. Once you build the layers in your artwork (image/photo), you cannot rearrange them.

☐ TRUE

☐ FALSE

15. Control + L allows you to merge two or more layers together.

☐ TRUE

☐ FALSE

16. Healing tool is used in Photoshop to hide the unwanted spots or pictures that appeared in your original picture and makes picture look like real without any changes.

☐ TRUE

☐ FALSE

17. Clone tool uses the current brush to repair the problem areas in photos and pictures, by painting over them with pixel data from other areas.

☐ TRUE

☐ FALSE

Continued...

18. Swatch palettes are a set of Filters. Filters can be used without remembering the numeric color values from the swatches palettes. We can also extract colors from an available image. Default swatches and custom swatches are also additional options for the users.

☐ TRUE

☐ FALSE

19. Smudge tool is used in Photoshop to hide the unwanted spots or pictures that appeared in your original picture and makes picture look like real without any changes.

☐ TRUE

☐ FALSE

20. The image adjustment of curves can take RGB input tones and selectively stretch or compress them.

☐ TRUE

☐ FALSE

End of Page.